0 7 AUG 2003

See paragraphs 1 and 4 below

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION Recu le

1 1 A0UT 2003 (PCT Rule 44.1)

Same as EPC

IPD France Date of mailing

07/08/2003

Applicant's or agent's file reference

PROPERTY OPERATIONS

Hampshire RG21 7PL UNITED KINGDOM

Midpoint, Alencon Link

From the INTERNATIONAL SEARCHING AUTHORITY

MOTOROLA EUROPEAN INTELLECTUAL

Attn. McCormack, Derek James

CROO556P/MAW

Basingstoke

International application No.

PCT/EP 03/04185

Applicant

FOR FURTHER ACTION

International filing date (day/month/year)

(day/month/year)

18/04/2003

MOTOROLA INC

-	
1. X	The applicant is hereby notified that the International Search Report has been established and is transmitted herewith.
	Filing of amendments and statement under Article 19:
	The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46):
	When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet.
	Where? Directly to the International Bureau of WIPO
	34, chemin des Colombettes
	1211 Geneva 20, Switzerland
	Fascimile No.: (41–22) 740.14.35
	For more detailed instructions, see the notes on the accompanying sheet. (0.8 AUG 2003 HTV 07
2.	The applicant is hereby notified that no International Search Report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.
3.	With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:
	the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.
	no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.
4. Furt	her action(s): The applicant is reminded of the following:
lf t pri	rity after 18 months from the priority date, the international application will be published by the International Bureau. he applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the ority claim, must reach the International Bureau as provided in Rules 90 <i>bis</i> .1 and 90 <i>bis</i> .3, respectively, before the mpletion of the technical preparations for international publication.
With wis	in 19 months from the priority date, a demand for international preliminary examination must be filed if the applicant shes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even Jater).

Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the

Name and mailing address of the International Searching Authority

European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk

priority date or could not be elected because they are not bound by Chapter II.

Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

Rosa Poquet Oliver

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international polication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been its filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- (Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims):
 "Claims 1 to 6 and 14 unchanged: claims 7 to 13 cancelled: new claims 15, 15 and 17, 144, 15
 - "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14, claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

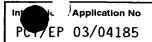
For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER see Notification of	f Transmittal of International Search Report
CR00556P/MAW	ACTION (Form PCT/ISA/2	20) as well as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/EP 03/04185	18/04/2003	30/04/2002
Applicant .		
MOTOROLA INC		•
FIOTOROLA INC		
This International Search Benort has been	n prepared by this International Searching Auth	pority and is transmitted to the configurat
according to Article 18. A copy is being tra	ansmitted to the International Bureau.	ionty and is transmitted to the applicant
This International Search Report consists	of a total of4 sheets.	
) <u></u>	a copy of each prior art document cited in this	report.
Basis of the report		
· ·	international search was carried out on the bas	sis of the international application in the
language in which it was filed, unl	ess otherwise indicated under this item.	
the international search w Authority (Rule 23.1(b)).	as carried out on the basis of a translation of the	ne international application furnished to this
b. With regard to any nucleotide an was carried out on the basis of the	d/or amino acid sequence disclosed in the in	ternational application, the international search
l —	onal application in written form.	
filed together with the inte	mational application in computer readable forn	n.
	this Authority in written form.	
	this Authority in computer readble form. esequently furnished written sequence listing de	oes not an havened the disclosure in the
international application a	s filed has been furnished.	
the statement that the info furnished	rmation recorded in computer readable form is	s identical to the written sequence listing has been
Certain claims were four	nd unsearchable (See Box I).	
3. Unity of invention is lack	king (see Box II).	
4. With regard to the title ,		
4. With regard to the title , X the text is approved as su	bmitted by the applicant.	
	hed by this Authority to read as follows:	
5. With regard to the abstract,		
X the text is approved as su		
the text has been establish within one month from the	hed, according to Rule 38.2(b), by this Authorit date of mailing of this international search rep	y as it appears in Box III. The applicant may, ort, submit comments to this Authority.
6. The figure of the drawings to be publi		1
as suggested by the applic	cant.	None of the figures.
because the applicant faile	•	
because this figure better	characterizes the invention.	

INTERNATIONAL SEARCH REPORT



A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H04B7/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 HO4B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

	ENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 01 69814 A (NOKIA NETWORKS OY ;HOTTINEN ARI (FI); TIRKKONEN OLAV (FI)) 20 September 2001 (2001-09-20) abstract; claims 1,12,15,18,30; figures 3,5 page 8, line 8 - line 19 page 12, line 10 - line 17	1,2,4-6
X	US 6 353 638 B1 (HOTTINEN ARI ET AL) 5 March 2002 (2002-03-05) abstract; claims 1,24; figures 2A,3 column 1, line 65 -column 2, line 43	1,2,4-6
X	WO 00 36764 A (NOKIA NETWORKS OY ;WICHMAN RISTO (FI); HOTTINEN ARI (FI)) 22 June 2000 (2000-06-22) abstract; figures 2A,3A,3B page 3, line 1 - line 29	1,2,5,6

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Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
 Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document reterring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed 	 *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *&* document member of the same patent family
Date of the actual completion of the international search 21 July 2003	Date of mailing of the international search report 07/08/2003
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Katruff, M

INTERNATIONAL SEARCH REPORT

Interior Application No
PCT/EP 03/04185

	•	PCT/EP 03/04185	
C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT			
ategory °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to	o claim No.
1	US 5 590 205 A (POPOVICH STEVEN R) 31 December 1996 (1996-12-31) abstract; claim 1 column 1, line 59 -column 2, line 62	3	
A	column 1, line 59 -column 2, line 62 AHMED M; PAUTLER J; ROHANI K: "CDMA receiver performance for multiple-input multiple-output" IEEE 54TH VEHICULAR TECHNOLOGY, 7 - 11 October 2001, pages 1309-1313, XP001096558 Atlantic City, NJ, USA cited in the application abstract; figures 1,2 page 1309, left-hand column, paragraph 1 -page 1310, left-hand column, last paragraph	1-	6

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INTEPMATIONAL SEARCH REPORT

n on patent family members

Por/EP 03/04185

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
WO 0169814	Α	20-09-2001	WO	0169814 A1	20-09-2001
010301.			AU	3167000 A	24-09-2001
			EP	1266463 Al	18-12-2002
US 6353638	B1	05-03-2002	FI	981575 A	09-01-2000
05 0555050		00 00 2002	ΑÜ	5041399 A	01-02-2000
			CN	1273717 T	15-11-2000
			EP	1013000 A1	28-06-2000
			WO	0003496 A1	20-01-2000
			JP	2002520944 T	09-07-2002
			NO	20001177 A	07-03-2000
WO 0036764		22-06-2000	F I	982715 A	16-06-2000
WO 0000701	••		ΑU	1984700 A	03-07-2000
			BR	9916239 A	04-09-2001
			CN	1330816 T	09-01-2002
			EP	1131903 A2	12-09-2001
			WO	0036764 A2	22-06-2000
			JP	2002533010 T	02-10-2002
			US	2002012380 A1	31-01-2002
US 5590205	 A	31-12-1996	NONE		